

Overview of Numbers and Operations

	1.0	2.0	3.0	4.0	5.0	6.0
Whole Numbers	▪ 1 to 10	▪ 0 to 20 ▪ 0 to 100	▪ 0 to 1000	▪ 0.01 to 9999	▪ 0.001 to millions and beyond	▪ calculate with powers ▪ binary numbers
Fractions		▪ unit fractions ▪ equivalent fractions	▪ \times with models link to ratios	+, −, \times ÷		
Decimals		▪ money amounts	▪ hundredths +, −	▪ thousandths +, −, \times (2 decimal place)	▪ link with fractions, ratios, %	▪ calculate in index form ▪ system of real numbers
Integers				▪ count into negatives	▪ all operations, with models and as inverses	
Irrationals					▪ irrationals (pi, square roots etc)	▪ surd arithmetic
Meanings of addition and subtraction	▪ combine two sets	▪ change one set (add to or take away from)	▪ compare two sets		▪ 'compare' important to subtract a negative number	
Meanings of multiplication	▪ make equal groups	▪ \times as repeated addition skip count	▪ array model ▪ area model	▪ enlargement and reduction (include numbers < 1)	▪ working with %, rates, ratios	
Meanings of division		▪ partition	▪ quotient	▪ inverse of multiplication ▪ don't divide by zero	▪ working with %, rates, ratios	
Factors		▪ skip counting	▪ multiplication tables	▪ lcm from sets of multiples square numbers	▪ factors & factor trees ▪ factorisation into prime powers	▪ hcf, lcm from prime factors ▪ hcf from Euclidean Algorithm
	1.0	2.0	3.0	4.0	5.0	6.0